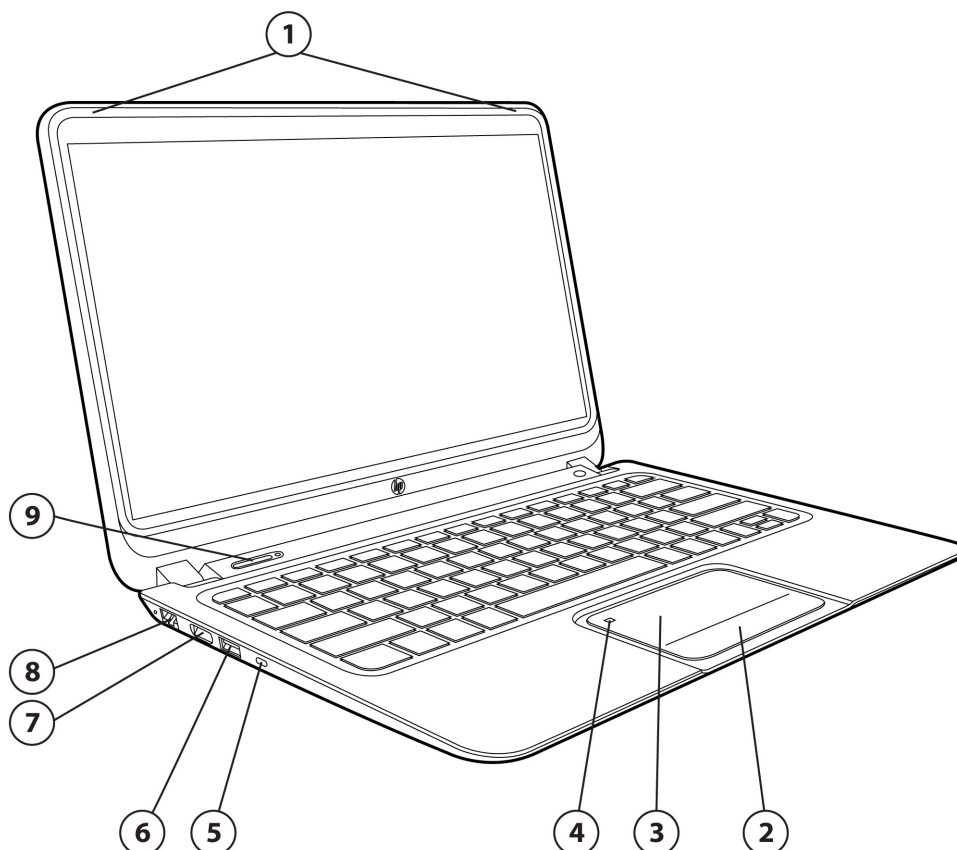


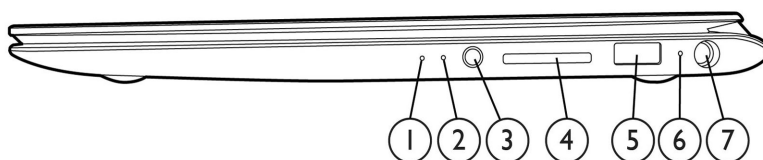
### Overview



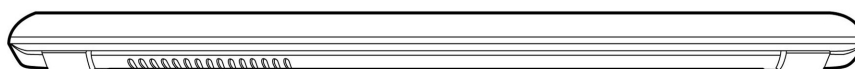
1. WLAN antennas (2)
2. Left and Right Clickpad button
3. Clickpad zone
4. Clickpad on/off button
5. Security lock slot

6. USB 3.0 port
7. HDMI port
8. RJ-45 (network) jack
9. Power button

Right  
View



Rear  
View



1. Power light
2. HDD light
3. Combo headphone/microphone jack
4. 2 in 1 Digital Media Reader Slot

5. USB 2.0 charging port
6. AC adapter light
7. Power connector

### Overview

#### At A Glance

- Windows 8 Pro 64, Windows 7 Professional 64 or Windows 7 Home Premium 64
- 3rd generation Intel® Core™ i5-3317U processor
- Integrated Intel HD Graphics 4000
- Widescreen LED-backlit HD 13.3" display (1366 x 768)
- 128 GB mSATA Solid State Drive
- 0.58 inch (14.7 mm) thin profile (at front)
- Weight starting at 3.13 lb (1.42 kg)
- HP Beats Audio with integrated stereo speakers, integrated dual-microphone array, HP TrueVision HD Webcam
- Full sized backlit chiclet keyboard with UV coating
- Easily hot dock with one of the optional HP docking stations
- 4-cell (45 WHr) Lithium-Ion battery
- Clickpad w/ gesture support image sensor
- Security features including a security lock slot and TPM 1.2 Embedded Security Chip
- Wireless connectivity:
  - Intel Centrino Advanced-N 6235 802.11a/b/g/n 2x2 + Bluetooth 4.0 Combo Adaptor
- Standard commercial 1 year warranty with upgrade available to 3 year with HP Care Pack

### Features

#### OPERATING SYSTEM

<b>Preinstalled</b>	Windows 8 Pro 64*† Windows 7 Professional 64** Windows 7 Home Premium 64**
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\* Not all features are available in all editions of Windows 8. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8 functionality. See <http://www.microsoft.com> for details.

\*\* Not all features are available in all editions of Windows 7. This system may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

† Windows 8 Pro will begin shipping on 11/15/12.

#### PROCESSOR

3rd Generation Intel® Core™ i5-3317U (1.7 GHz, 3 MB L3 cache, 2 cores)\*  
Up to 2.60 GHz with Intel Turbo Boost Technology

\* Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

#### CHIPSET

Intel® HM76 Express

#### GRAPHICS

Integrated:  
Intel HD Graphics 4000

#### DISPLAY

**Internal**  
13.3" diagonal HD LED BrightView (1366 x 768)

**External**  
Up to 32-bit per pixel color depth

**HDMI**  
1.4 port supports up to 1080p, 1920 x 1080 at 60Hz

**NOTE:** Resolutions are dependent upon monitor capability, and resolution and color depth settings.

### Features

#### STORAGE AND DRIVES

##### Internal Storage Device\*

128 GB mSATA Solid State

\* For hard drives and SSD's, GB=1 billion bytes. TB=1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows 8) of system disk is reserved for system recovery software.

#### MEMORY

DDR3L SDRAM (1600 MHz)\*

On-board

Standard memory up to 4096 MB

\* Maximum memory speed supported by the system may be 1333 MHz or 1066 MHz.

**NOTE:** Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. With Windows Starter 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

#### NETWORKING/COMMUNICATIONS

##### Wireless

Support for of secure, integrated wireless LAN featuring support for the latest industry standards.

##### All 802.11 integrated wireless LAN options

Wi-Fi Certified

Cisco Compatible Extensions support

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) and WPA2 support

802.1X authentication support, including EAP-TLS, TTLS, LEAP, EAP-FAST, and PEAP, Authentication Protocols, including PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2

Advanced Encryption Standard (AES) support

Dual antennas integrated in the display enclosure

##### Intel® Centrino® Advanced-N 6235 802.11a/b/g/n (2x2)

Integrated support for 802.11a, b, g, and n

##### + Bluetooth® 4.0 Combo Adaptor

2 transmit, 2 receive antennas

Up to 300 Mbps data rate

Bluetooth Specification v4.0+EDR compliant

Works with a wide range of Bluetooth devices

##### Communications

Integrated RTL8111 (10/100/1000 NIC)\*

\* The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

### Features

#### AUDIO/MULTIMEDIA

##### Audio

HP Beats Audio  
High Definition Beats speakers  
Integrated microphone (dual-microphone array)  
Combo headphone/microphone jack

##### Webcam

Integrated HP TrueVision HD\* Webcam\*\*

- HD\* format
- 720p
- Supports videoconferencing and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1280x720 resolution (720p) and up to 30fps
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range

\*HD content required to view HD images.

\*\* Internet access required.

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#### KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

##### Keyboard

The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys. US and International key layouts are available.

##### Backlit Keyboard

The standard backlit keyboard for low light environments is toggled on and off with a function key.

##### Pointing Devices

Clickpad w/ gesture support image sensor, on/off button with LED indicator, two-way scroll, two pick buttons

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#### SOFTWARE AND SECURITY

##### Preinstalled Software with Windows Operating System

Microsoft Office 2010 60 days trial (Windows 8 only)

Microsoft Office Starter (Windows 7 only: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.\*

Buy Microsoft Office to activate Office Software on this PC.

HP Quick Launch

HP Support Assistant

HP CoolSense

Intel Wireless Display and Music\*\*

Skype ready (Internet access required)

Adobe® Flash Player (Windows 7 only)

\* Includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and <http://www.office.com>.

##### Security



### Features

#### Standard

Security Lock Slot  
TPM 1.2 Embedded Security Chip

#### Optional

Security Lock  
CompuTrace

**NOTE:** Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging from one to five years. Service is limited, check with Absolute for availability outside the U.S.

For more information on HP security solutions refer to: <http://www.hp.com/go/security>.

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### POWER

#### Power Supply

External 65-watt HP non-Smart AC Adapter  
Power cord included is 6-foot (1.8 meter).  
Total length including external AC adapter is 12 feet (3.66 meter).

#### Primary Battery

HP 4-cell Lithium-Ion Battery (45 WHr)

#### Battery Life

Battery life up to 8 hours

#### System Standby Time

Up to 1 week

#### Power Conservation

Hibernation  
Standby  
ACPI compliance

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### ENVIRONMENTAL

WEEE compliant (Waste Electric and Electronic Equipment)  
Energy Star / EPEAT Silver compliant  
RoHS2 Compliant  
MSH/OBL Compliant  
DLNA certification  
E-Standby compliant  
BFR/PVC free

**NOTE:** This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks.

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### Features

#### WEIGHTS & DIMENSIONS

**Weight**

Starting at 3.13 lb (1.42 kg)

**Dimensions** (w x d x h)

12.46 x 8.84 x 0.58 in (at front) – 0.7 in (at rear)

31.65 x 22.45 x 1.47 cm (at front) – 1.79 cm (at rear)

**NOTE:** Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 4-cell battery, solid state drive, 4 GB memory, and no optical drive. Weight varies by configuration and components.

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#### PORTS/SLOTS

**Ports**

HDMI v1.4 – One

RJ-45 (Ethernet) – One

Headphone/Microphone Combo Jack – One

Power Connector – One

USB 3.0 – One

USB 2.0 Charge Port – One

**Digital Media Slots**

2 in 1 Digital Media Reader Slot (Push-Push Insertion/Removal)

Supports: SD, SDHC, SDXC and MultiMediaCard

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#### SERVICE AND SUPPORT

HP Services offers a 1 year warranty option; 1 year limited warranty on primary battery. On-site service and warranty upgrades are also available. Up to a 3-year warranty available by using HP Care Pack Services to extend the service contracts beyond the standard warranty. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at:

<http://www.hp.com/go/lookuptool>. Additional HP Care Pack Services information by product is available at:

<http://www.hp.com/hps/carepack>.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>

### Technical Specifications

#### SYSTEM UNIT

<b>Stand-Alone Power Requirements</b> (AC Power)	<b>Nominal Operating Voltage</b>	18.5 V
	<b>Average Operating Power</b>	Integrated graphics: TBD W Discrete graphics: TBD W
	<b>Max Operating Power</b>	< 65 W
<b>Temperature</b>	<b>Operating</b>	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	<b>Non-operating</b>	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	<b>Operating</b>	10% to 90%, non-condensing
	<b>Non-operating</b>	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
<b>Shock</b>	<b>Operating</b>	40 G, 2 ms, half-sine
	<b>Non-operating</b>	200 G, 2 ms, half-sine
<b>Random Vibration</b>	<b>Operating</b>	0.75 grms
	<b>Non-operating</b>	1.50 grms
<b>Altitude</b> (unpressurized)	<b>Operating</b>	-50 to 10,000 ft (-15.24 to 3,048 m)
	<b>Non-operating</b>	-50 to 40,000 ft (-15.24 to 12,192 m)
<b>Planned Industry Standard Certifications</b>	<b>UL</b>	Yes
	<b>CSA</b>	Yes
	<b>FCC Compliance</b>	Yes
	<b>ENERGY STAR®</b>	Select models*
	<b>EPEAT</b>	Registered TBD in United States**
	<b>ICES</b>	Yes
	<b>Australia / NZ A-Tick Compliance</b>	Yes
	<b>CCC</b>	Yes
	<b>Japan VCCI Compliance</b>	Yes
	<b>KC</b>	Yes
	<b>BSMI</b>	Yes
	<b>CE Marking Compliance</b>	Yes
	<b>BNCI or BELUS</b>	Yes
	<b>CIT</b>	Yes
	<b>GOST</b>	Yes
	<b>Saudi Arabian Compliance (ICCP)</b>	Yes
	<b>SABS</b>	Yes
	<b>UKRSERTCOMPUTER</b>	Yes



### Technical Specifications

\* Configurations of the HP ENVY Spectre<sup>XT</sup> Pro that are ENERGY STAR qualified are identified as HP ENVY Spectre<sup>XT</sup> Pro on HP websites and on [www.energystar.gov](http://www.energystar.gov).

\*\* EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country. EPEAT status listed above applies to U.S.

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

### DISPLAY

<b>13.3-inch LED HD (1366 x 768) BrightView</b>	<b>Dimensions (W x H)</b>	11.53 x 6.49 in (29.3 x 16.5 cm)	
	<b>Diagonal Size</b>	13.3 in (33.8 cm)	
	<b>Surface Treatment</b>	BrightView	
	<b>Contrast Ratio</b>	500:1 (typical)	
	<b>Refresh Rate</b>	60 Hz	
	<b>Brightness</b>	200 nit (typical)	
	<b>Pixel Resolution</b>	<b>Pitch</b>	0.215 mm
		<b>Format</b>	1366 x 768
		<b>Configuration</b>	RGB Stripe
	<b>Backlight</b>	LED	
	<b>PPI</b>	118 ppi	
	<b>Viewing Angle</b>	±30° Horizontal, ±10° Vertical (minimum) 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)	

### STORAGE AND DRIVES

#### Internal Storage

<b>128 GB 2.5-inch mSATA Solid State Drive</b>	<b>Drive Weight</b>	75 Grams	
	<b>Capacity</b>	128 GB	
	<b>Height</b>	0.276 in (7 mm)	
	<b>Width</b>	2.76 in (70 mm)	
	<b>Interface</b>	SATA Gen 2	
	<b>Performance</b>	<b>Maximum Sequential Read</b>	<b>Maximum Sequential Write</b>
		250 MB/s	140 MB/s
	<b>Logical Blocks</b>	250,069,680	
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [case temp]	
	<b>Features</b>	ATA Security; ATA-7; SATA 2.6; DIPM; TRIM	

### Technical Specifications

#### NETWORKING/COMMUNICATIONS

<b>Integrated Realtek RTL8111 10/100/1000 NIC</b>	<b>Ethernet Features</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (100BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 21-30) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	<b>Power Management</b>	ACPI compliant - multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	<b>Performance Features</b>	TCP/IP/UDP Checksum Offload (configurable) Large send offload and Giant send offload Receiving Side Scaling
	<b>Manageability</b>	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
	<b>Interface</b>	PCI to fully support ASPM L0s/L1 and CLKREQ
	<b>NIC Device Driver Name</b>	Realtek PCI FE Ethernet Family Controller

<b>Intel Centrino Advanced - N 6235 802.11a/g/n (2x2) Bluetooth v4.0 Combo Adaptor</b>	<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7 (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.4 GHz and 5 GHz
	<b>Data Rates</b>	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 300 Mbps
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	<b>Security</b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP, LEAP, and EAP-FAST. Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 5) with Microsoft Windows 7.

### Technical Specifications

<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.	
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance)	
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points	
<b>Output Power</b>	13.5 dBm , nominal	
<b>Power Consumption</b>	Idle associated: 250 mW Idle unassociated: 100 mW Radio disabled: 75mW Transmit: 2.0 W (max) Receive: 1.6 W (max)	
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode	
<b>Receiver Sensitivity</b>	54 Mbps: -74 dBm, 11 Mbps: -88 dBm , 1 Mbps: -95 dBm	
<b>Antenna type</b>	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
<b>Form Factor</b>	PCI-Express Half-MiniCard 1.2	
<b>Weight</b>	0.008 lb (3.7 g)	
<b>Dimensions</b>	1.06 x 1.18 x 0.19 in (26.80 x 30.00 x 4.75 mm)	
<b>Operating Voltage</b>	3.3v +/- 10%	
<b>Temperature</b>	Operating	14° to 158° F (-10° to 70° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	Amber LED - Radio OFF; White LED - Radio ON	
<b>Bluetooth 4.0 Wireless Technology</b>	<b>Bluetooth Specification</b>	2.1+EDR, 3.0+HS, 4.0 Compliant
	<b>Dimensions</b>	1.06 x 1.18 x 0.19 in (26.80 x 30.00 x 4.75 mm)
	<b>Frequency Band</b>	2402 to 2480 MHz
	<b>Number of Available Channels</b>	79 (1 MHz) available channels
	<b>Data Rates and Throughput</b>	3 Mbps data rate; throughput up to 2.17 Mbps
		Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
		Asynchronous Connection Less links 2.17 Mbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
	<b>Transmit Power</b>	Max 4 dBm (Bluetooth Class II); Max +10 dBm (Bluetooth 4.0)
	<b>Receiver Sensitivity</b>	Better than -80 dBm at 0.1 % raw bit error rate

### Technical Specifications

<b>Power Consumption</b>	Receive 230mW Peak Operating 330mW USB Selective Suspend 17mW
<b>Antenna</b>	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure
<b>Range</b>	Up to 30 ft (9.14 m)
<b>Electrical Interface</b>	USB 2.0 compliant Microsoft Windows Plug and Play compliant
<b>Bluetooth Software Supported</b>	Motorola Bluetooth for Windows Microsoft Windows Bluetooth Software
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>Certifications</b>	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Temperature</b>	Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% Non-operating 5% to 95%
<b>Altitude</b>	Operating 10,000 ft (3,048 m) Non-operating 50,000 ft (15,240 m)
<b>Bluetooth Profiles Supported</b>	Serial Port Profile (SPP) Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) Generic Object Exchange Profile (GOEP) Object Push Profile (OPP) File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) Personal Area Networking Profile (PAN) Human Interface Device Profile (HID) FAX Profile (FAX) Basic Imaging Profile (BIP) <sup>2</sup> Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

### AUDIO/MULTIMEDIA



### Technical Specifications

#### Audio

<b>Hardware</b>	<b>Implementation</b>	IDT92HD99 High Definition CODEC
	<b>Function Key Volume Controls</b>	Volume up, volume down, and mute
	<b>Full Duplex</b>	Yes
	<b>Microphone In</b>	Stereo
	<b>Headphone/Line Out</b>	Stereo
	<b>Integrated Microphone</b>	Yes, dual digital microphone array

<b>Audio Output Quality</b>	<b>Frequency Response</b>	20 Hz - 20 kHz
	<b>Signal to Noise Ratio</b>	>85 dB
	<b>Total Harmonic Distortion</b>	0.01%
	<b>Noise Floor</b>	-110 dB
	<b>Play/Record Sampling Rate(s)</b>	8 kHz - 48kHz
	<b>DAC</b>	16, 20 or 24-bit
	<b>ADC</b>	16 or 20-bit

<b>Internal Stereo Speaker</b>	<b>Power Rating</b>	2 Watts
	<b>Impedance</b>	4 ohms

### POWER

<b>HP 65W non-Smart AC Adapter AC</b>	<b>Dimensions</b>	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)	
	<b>Weight</b>	0.62 lb (280 g)	
	<b>Input</b>	100 to 240 VAC	
		<b>Input Efficiency</b>	83% min at 115 VAC
		<b>Input frequency range</b>	47 to 63 Hz
	<b>Output</b>	<b>Input AC current</b>	1.7 A at 90 VAC, 0.85 A at 180 VAC
		<b>Output power</b>	65W
		<b>DC output</b>	18.5V
		<b>Hold-up time</b>	5 msec at 115 VAC input
		<b>Output current limit</b>	<5A, Over voltage protection- 29V max automatic shutdown
	<b>Connector</b>	3 pin/grounded, mates with interchangeable cords	
	<b>Environmental Design</b>	<b>Operating temperature</b>	32° to 104° F (0° to 40° C)

### Technical Specifications

	<b>EMI and Safety Certifications</b>	<b>Non-operating (storage) temperature</b>	-4° to 149° F (-20° to 65° C)
		<b>Altitude</b>	0 to 10,000 ft (0 to 3,048 m)
		<b>Humidity</b>	20% to 80%
		<b>Storage Humidity</b>	10% to 90%
		CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII	
<b>HP 4-cell (45 WHr) Lithium-Ion Primary battery</b>	<b>Dimensions</b> (h x w x l)	0.18 x 4.61x 11.1in (0.46 x 11.7 x 28.2cm)	
	<b>Weight</b>	0.66 lb (300g)	
	<b>Cells/Type</b>	4-cell Lithium-Ion	
	<b>Energy</b>	<b>Voltage</b>	14.8V
		<b>Amp-hour capacity</b>	3.515Ah
		<b>Watt-hour capacity</b>	45 WHr
		<b>Operating (Charging)</b>	32° to 113° F (0° to 45° C)
	<b>Temperature</b>	<b>Operating (Discharging)</b>	14° to 140° F (-10° to 60° C)
		<b>Non-operating</b>	-4° to 140° F (-20° to 60° C)
		<b>System in OFF or Standby Mode</b>	2.5 hours
	<b>Battery Re-Charge Time</b>	<b>System ON</b>	3 to 5 hours

### ENVIRONMENTAL

#### Environmental Data

**Eco-Label Certifications** This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

WEEE compliant (Waste Electric and Electronic Equipment)  
 Energy Star / EPEAT Silver compliant  
 RoHS2 Compliant  
 MSH/OBL Compliant  
 DLNA certification  
 E-Standby compliant  
 BFR/PVC free

#### END-OF-LIFE MANAGEMENT AND RECYCLING

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by

### Technical Specifications

treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### HEWLETT-PACKARD CORPORATE ENVIRONMENTAL INFORMATION

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Environment website

<http://www.hp.com/environment>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

Options and Accessories (sold separately and availability may vary by country)

Type	Description	Part #
<b>Cases</b>	HP Business Slim Top Load Case	H2T13AA
<b>Docking</b>	HP USB 2.0 Port Replicator	H1L07AA#xxx
	HP USB 3.0 Port Replicator	H1L08AA#xxx
	HP Display and Notebook Stand	AW662AA
<b>Input/Output</b>	HP USB Optical Travel mouse	RH304AA
	HP Pocket Whiteboard	A0X37AA#xxx
	USB Graphics Adapter	NL571AT
	HDMI to VGA Adapter	H2L54AA#xxx
<b>Power</b>	HP 65W Slim A/C Adapter	AX727AA#xxx
	65W Smart Travel A/C Adapter	AU155AA#xxx
	90W Slim Adapter	BT796AA#xxx
<b>Storage – External Storage</b>	HP Mobile USB DVDRW	A2U57AA

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